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TO: Department of Customer Corrections**COMPANY:** United States Patent Office**FAX NO.:** 703-308-7751**FROM:** Doran R. Pace**DATE:** August 14, 2000**NUMBER OF PAGES (INCLUDING COVER SHEET):** 5**SUBJECT/MESSAGE:**

Re: U.S. Patent Application Docket No. SPO-108
Serial No. 09/508,342; filed March 10, 2000

Request for Correction of Filing Receipt (4 pages, with attachments)

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and Trademark Office on August 14, 2000

Doran R. Pace
Doran R. Pace, Patent Attorney

REQUEST FOR CORRECTION OF
FILING RECEIPT

Examining Group 1646

Patent Application

Docket No. SPO-108

Serial No. 09/508,342

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit : 1646
Applicants : Yoshiyuki Sakaki, Hajime Tei
Serial No. : 09/508,342
Filed : March 10, 2000
For : Mammalian Genes Involved in Circadian Periods

Assistant Commissioner for Patents
Office of Initial Patent Examination
Customer Service Center
Washington, D.C. 20231

REQUEST FOR CORRECTION OF FILING RECEIPT

Sir:

Applicants respectfully request the correction of an error in the Official Filing Receipt for the above-identified patent application. Please send a corrected Filing Receipt with the following change:

The Filing Receipt lists the title of the application as:

MAMMALIAN GENES PARTICIPATING IN CIRCADIAN PERIOD

The word "PARTICIPATING" is incorrect. The correct word is "INVOLVED." Thus, the correct title of the subject application is:

MAMMALIAN GENES INVOLVED IN CIRCADIAN PERIOD

In addition, the Filing Receipt incorrectly lists the total number of drawings in the subject application as thirty one (31). The correct total number of drawings for the subject application is ten (10).

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Docket No. SPO-108
Serial No. 09/508,342

A copy of the Filing Receipt containing the error, along with a copy of page 1 of the subject specification showing the correct title of the subject application, is attached.

Respectfully submitted,



Doran R. Pace
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DRP/sl

Attachments: copy of erroneous Official Filing Receipt with error noted thereon; copy of page 1 of the subject specification.

COPY

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FILING RECEIPT



OC00000005254368

UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark OfficeAddress: ASSTANT SECRETARY AND
COMMISSIONER OF PATENT AND TRADEMARKS
Washington, D.C. 20231

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
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09/508,342

06/05/2000

1646

797

SP0-108

31
10

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DORAN R PACE
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2421 NW 41ST STREET
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Date Mailed: 07/20/2000

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the PTO processes the reply to the Notice, the PTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

YOSHIYUKI SAKAKI, KANAGAWA, JAPAN;
HAJIME TEI, TOKYO, JAPAN;

Continuing Data as Claimed by Applicant

THIS APPLICATION IS A 371 OF PCT/JP98/04125 09/11/1993

Foreign Applications

JAPAN 9/267846 09/12/1997

If Required, Foreign Filing License Granted 07/19/2000

Title

INVOLVED
MAMMALIAN GENES PARTICIPATING IN CIRCADIAN PERIOD

Preliminary Class

435

Data entry by : BARRETO, NGA

Team : OIPE

Date: 07/20/2000

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- 1 -

SPO-108

SPECIFICATION

MAMMALIAN GENES INVOLVED IN CIRCADIAN PERIODS

5 Technical Field

The present invention relates to mammalian genes whose expression changes with a circadian period.

Background Art

10 Many biochemical processes, physiological processes, and behavioral processes in various organisms ranging from microorganisms to vertebrates exhibit circadian rhythms (Edmunds, L. N. J., Cellular and Molecular Basis of Biological Clock, Springer-Verlag, New York, 1988). Several genes have been
15 suggested to be involved in circadian rhythms.

For example, two mammalian circadian clock mutations have been confirmed thus far. They are Clock of the mouse (Vitaterna, M. H., et al., Science 264: 719-725, 1994) and tau of the hamster (Ralph, M. R. and Menaker, M., Science 241: 1225-1227, 1988). The Clock
20 gene has recently been identified and is believed to encode a transcription factor in the circadian clock (Moor, R. Y. and Eichler, V. B., Brain Res. 42: 201-206, 1972; Stephan, F. K. and Zucker, I., Proc. Natl. Acad. Sci. USA 69: 1583-1586, 1972). On the other hand, the tau gene has not yet been cloned.

25 The period (per) gene has been isolated from *Drosophila* as a gene necessary for the expression of circadian rhythms for locomotive activities and eclosion behavior (Konopka, R. J. and Benzer, S., Proc. Natl. Acad. Sci. USA 68: 2112-2116, 1971). In the brain of the fly the oscillation of the levels of the per mRNA
30 and of the PERIOD (dPER) protein are thought to determine the rhythms (Hardin, P. E., et al., Nature 343: 536-540, 1990; Zarr, D. M., et al., J. Neurosci. 10: 2749-2762, 1990). However, per homologues in other organisms than insects have not been identified.

35 Disclosure of the Invention

An object of the present invention is to provide novel